TABLE OF CONTENTS

VOLUME 95, MAY–AUGUST, 1980

ANXOLABEHERE, D., The influence of sexual and larval selection on the maintenance of polymorphism at the sepia locus in *Drosophila melanogaster* 743–755

BENNOUN, PIERRE, ARLETTE MASSON and MONIQUE DELOSME, A method for complementation analysis of nuclear and chloroplast mutants of photosynthesis in Chlamydomonas 39–47

BINGHAM, PAUL M., The regulation of white locus expression: a dominant mutant allele at the white locus of *Drosophila melanogaster* 341–353

BRADLEY, BRIAN P., Developmental stability of *Drosophila melanogaster* under artificial and natural selection in constant and fluctuating environments 1033–1042

BRYANT, STEPHEN H., Clan lethals and inter-year allelism in Death Valley *Drosophila pseudoobscura* 1023–1031

CHARON, NYLES W., ALLAN M. CAMPBELL and S. CRAIG STAMM, Isolation of lambda transducing phage with the *bio* genes inserted between lambda genes *P* and *Q*... 1–13

COHEN, JEAN and JANINE BEISSON, Genetic analysis of the relationships between the cell surface and the nuclei in *Paramecium tetraurelia* 797–818

CORUZZI, GLORIA and ALEXANDER TZAGOLOFF, Assembly of the mitochondrial membrane system: nuclear suppression of a cytochrome *b* mutation in yeast mitochondrial DNA 891–903

COX, B. S., M. F. TUITE and C. J. MUNDY, Reversion from suppression to nonsuppression in *SUQ5* [*psi*+] strains of yeast: the classification of mutations 589–609

COX, GEORGE N., JOHN S. LAUFER, MEREDITH KUSCH and ROBERT S. EDGAR, Genetic and phenotypic characterization of roller mutants of *Caenorhabditis elegans* 317–339

CULBERTSON, MICHAEL R., KAREN M. UNDERBRINK and GERALD R. FINK, Frameshift suppression in *Saccharomyces cerevisiae*. II. Genetic properties of group II suppressors 833–853

CUMMINS, CLAUDIA M., RICHARD F. GABER, MICHAEL R. CULBERTSON, RICHARD MANN and GERALD R. FINK, Frameshift suppression in *Saccharomyces cerevisiae*. III. Isolation and genetic properties in group III suppressors 855–875

DRISCOLL, C. J., G. H. GORDON and G. KIMBER, Mathematics of chromosome pairing... 159–169

ECKARDT, FRIEDERIKE, SOO-JEET TEH and R. H. HAYNES, Heteroduplex repair as an intermediate step of UV mutagenesis in yeast 63–80

ENGELS, WILLIAM R. and CHRISTINE R. PRESTON, Components of hybrid dysgenesis in a wild population of *Drosophila melanogaster* 111–128

FLEURIET, ANNIE, Polymorphism of the hereditary sigma virus in natural populations of *Drosophila melanogaster* 459–465

FORDE, B. G., R. J. C. OLIVER, C. J. LEAVER, R. E. GUNN and R. J. KEMBLE, Classification of normal and male-sterile cytoplasms in maize. I. Electrophoretic analysis of variation in mitochondrially synthesized proteins 443–450

FRANKHAM, R., D. A. BRISCOE and R. K. NURTHEN, Unequal crossing over at the rRNA tandon as a source of quantitative genetic variation in Drosophila 727–742

GRATIA, JEAN-PIERRE, Studies on the mechanism of transduction by bacteriophage $\phi\gamma$. II. Formation of transducing elements 525–544

HANNAH, L. C., D. M. TUSCHALL and R. J. MANS, Multiple forms of maize endosperm ADP-glucose pyrophosphorylase and their control by shrunken-2 and brittle-2 ... 961–970

HARASHIMA, SATOSHI and YASUJI OSHIMA, Functional equivalence and co-dominance of homothallic genes, *HMα/hmα* and *HMa/hma*, in Saccharomyces yeasts 819–831

HASENKAMPF, CLARE A. and MARGARET Y. MENZEL, Incipient genome differentiation in Gossypium. II. Comparison of twelve chromosomes in *G. hirsutum*, *G. mustelinum* and *G. tomentosum* using heterozygous translocations 971–983

HENRIQUES, J. A. P. and E. MOUSTACCHI, Isolation and characterization of *pso* mutants sensitive to photo-addition of psoralen derivatives in *Saccharomyces cerevisiae* ... 273–288

HILLIKER, ARTHUR J., STEPHEN H. CLARK, ARTHUR CHOVNICK and WILLIAM M. GELBART, Cytogenetic analysis of the chromosomal region immediately adjacent to the rosy locus in *Drosophila melanogaster* 95–110

HIRAIZUMI, YUICHIRO, DIANA W. MARTIN and IRENE A. ECKSTRAND, A modified model of segregation distortion in *Drosophila melanogaster* 693–706

HOUGH-EVANS, BARBARA R., MARCELO JACOBS-LORENA, MICHAEL R. CUMMINGS, ROY J. BRITTEN and ERIC H. DAVIDSON, Complexity of RNA in eggs of *Drosophila melanogaster* and *Musca domestica* 81–94

KELLEY, WILLIAM S., Mapping of the *polA* locus of *Escherichia coli* K12: genetic fine structure of the cistron 15–38

KEMBLE, R. J., R. E. GUNN and R. B. FLAVELL, Classification of normal and male-sterile cytoplasms in maize. II. Electrophoretic analysis of DNA species in mitochondria 451–458

KINSEY, JOHN A., J. R. S. FINCHAM, M. A. M. SIDDIG and MARGARET KEIGHREN, New mutational variants of Neurospora NADP-specific glutamate dehydrogenase 305–316

KLAR, AMAR J. S., Interconversion of yeast cell types by transposable genes 631–648

KREITMAN, MARTIN, Assessment of variability within electromorphs of alcohol dehydrogenase in *Drosophila melanogaster* 467–475

LEWIS, JAMES A., C.-H. WU, HOWARD BERG and JOSEPH H. LEVINE, The genetics of levamisole resistance in the nematode *Caenorhabditis elegans* 905–928

LEWIS, R. A., T. C. KAUFMAN, R. E. DENELL and P. TALLERICO, Genetic analysis of the antennapedia gene complex (ANT-C) and adjacent chromosomal regions of *Drosophila melanogaster*. I. Polytene chromosome segments 84B-D 367–381

LEWIS, R. A., B. T. WAKIMOTO, R. E. DENELL and T. C. KAUFMAN, Genetic analysis of the antennapedia gene complex (ANT-C) and adjacent chromosomal regions of *Drosophila melanogaster*. II. Polytene chromosome segments 84A-84B1, 2 383–397

LI, WEN-HSIUNG, Rate of gene silencing at duplicate loci: a theoretical study and interpretation of data from tetraploid fishes 237–258

LIEBMAN, SUSAN W. and MARGARET CAVENAGH, An antisuppressor that acts on omnipotent suppressors in yeast 49–61

LIVI, GEORGE P. and VIVIAN L. MACKAY, Mating-type regulation of methyl methanesulfonate sensitivity in *Saccharomyces cerevisiae* 259–271

LOUKAS, M., C. B. KRIMBAS and K. MORGAN, The genetics of *Drosophila subobscura* populations. XIV. Further data on linkage disequilibria 757–768

MAGUIRE, MARJORIE P., Serial-section analysis of clustering within anthers of maize microsporocytes with specific crossovers 143–157

MAY, BERNIE, MARK STONEKING and JAMES E. WRIGHT, JR., Joint segregation of biochemical loci in Salmonidae. II. Linkage associations from a hybridized Salvelinus genome (*S. namaycush* × *S. fontinalis*) 707–726

MCDONALD, JOHN F., STEVEN M. ANDERSON and MAURO SANTOS, Biochemical differences between products of the *Adh* locus in Drosophila 1013–1022

MITTON, JEFFRY B. and BENJAMIN A. PIERCE, The distribution of individual heterozygosity in natural populations 1043–1054

NEUFFER, M. G. and WILLIAM F. SHERIDAN, Defective kernel mutants of maize. I. Genetic and lethality studies 929–944

NEWTON, KATHLEEN J. and DREW SCHWARTZ, Genetic basis of the major malate dehydrogenase isozymes in maize 425–442

NORMAN, R. A. and SATYA PRAKASH, Variation in activities of amylase allozymes associated with chromosome inversions in *Drosophila pseudoobscura*, *D. persimilis* and *D. miranda* 187–209

NORMAN, R. A. and SATYA PRAKASH, Developmental variation in amylase allozyme activity associated with chromosome inversions in *Drosophila persimilis* 1001–1011

OPPENHEIM, DANIEL S. and CHARLES YANOFSKY, Translational coupling during expression of the tryptophan operon of *Escherichia coli* 785–795

OWERBACH, DAVID and J. PETER HJORTH, Inheritance of a parotid secretory protein in mice and its use in determining salivary amylase quantitative variants 129–141

PALMER, REID G. and PETER N. MASCIA, Genetics and ultrastructure of a cytoplasmically inherited yellow mutant in soybeans 985–1000

PAMILO, PEKKA and SIRKKA-LIISA VARVIO-AHO, Letter to the Editor, On the estimation of population size from allele frequency changes 1055–1057

REED, STEVEN I., The selection of *Saccharomyces cerevisiae* mutants defective in the start event of cell division 561–577

REED, STEVEN I., The selection of amber mutations in genes required for completion of start, the controlling event of the cell division cycle of *S. cerevisiae* 579–588

ROEHRDANZ, RICHARD L. and JOHN C. LUCCHESI, Mutational events in the triplo- and haplo-lethal region (83DE) of the *Drosophila melanogaster* genome 355–366

ROOSE, M. L. and L. D. GOTTLIEB, Alcohol dehydrogenase in the diploid plant *Stephanomeria exigua* (Compositae): gene duplication, mode of inheritance and linkage 171–186

SHEETZ, R. MICHAEL and ROBERT C. DICKSON, Mutations affecting synthesis of β-galactosidase activity in the yeast *Kluyveromyces lactis* 877–890

SHERIDAN, WILLIAM F. and M. G. NEUFFER, Defective kernel mutants of maize. II. Morphological and embryo culture studies 945–960

SILVELA, LUIS, Genetic changes with generations of artificial selection 769–782

SLATKIN, MONTGOMERY, The distribution of mutant alleles in a subdivided population 503–523

STALKER, HARRISON D., Chromosome studies in wild populations of *Drosophila melanogaster*. II. Relationship of inversion frequencies to latitude, season, wing-loading and flight activity 211–223

STUBER, C. W., R. H. MOLL, M. M. GOODMAN, H. E. SCHAFFER and B. S. WEIR, Allozyme frequency changes associated with selection for increased grain yield in maize (*Zea mays* L.) 225–236

TANEMURA, SHIGEJI and RONALD BAUERLE, Conditionally expressed missense mutations: the basis for the unusual phenotype of an apparent *trpD* nonsense mutant of *Salmonella typhimurium* 545–559

TOMSETT, A. BRIAN and REGINALD H. GARRETT, The isolation and characterization of mutants defective in nitrate assimilation in *Neurospora crassa* 649–660

TRIPPA, G., A. LOVERRE and R. CICCHETTI, Cytogenetic analysis of an *SD* chromosome from a natural population of *Drosophila melanogaster* 399–412

TUITE, M. F. and B. S. COX, Ultraviolet mutagenesis studies of [*psi*], a cytoplasmic determinant of *Saccharomyces cerevisiae* 611–630

VANDEBERG, J. L., D. W. COOPER, G. B. SHARMAN, W. E. POOLE, Somatic expression and autosomal inheritance of phosphoglycerate kinase *B* in kangaroos 413–424

WEIR, B. S. and W. G. HILL, Effect of mating structure on variation in linkage disequilibrium 477–488

WILLIAMS, KEITH L., GILLIAN E. ROBSON and DENNIS L. WELKER, Chromosome fragments in *Dictyostelium discoideum* obtained from parasexual crosses between strains of different genetic background 289–304

WILSON, SUSAN R., Analyzing gene-frequency data when the effective population size is finite 489–502

YEDVOBNICK, BARRY, HALLIE M. KRIDER and BRYAN I. LEVINE, Analysis of the autosomal mutation *abo* and its interaction with the ribosomal DNA of *Drosophila melanogaster*: the role of *X*-chromosome heterochromatin 661–672

ZIMMERMAN, J. LYNN, DAVID L. FOUTS and JERRY E. MANNING, Evidence for a complex class of nonadenylated mRNA in Drosophila 673–691